

### Overview

#### What's New

- Mobile Intel® Pentium® III up to 1.2 GHz-M processor
- ATI Mobility Radeon with 16-MB DDR SDRAM
- USB 2.0
- Optional External MultiBay

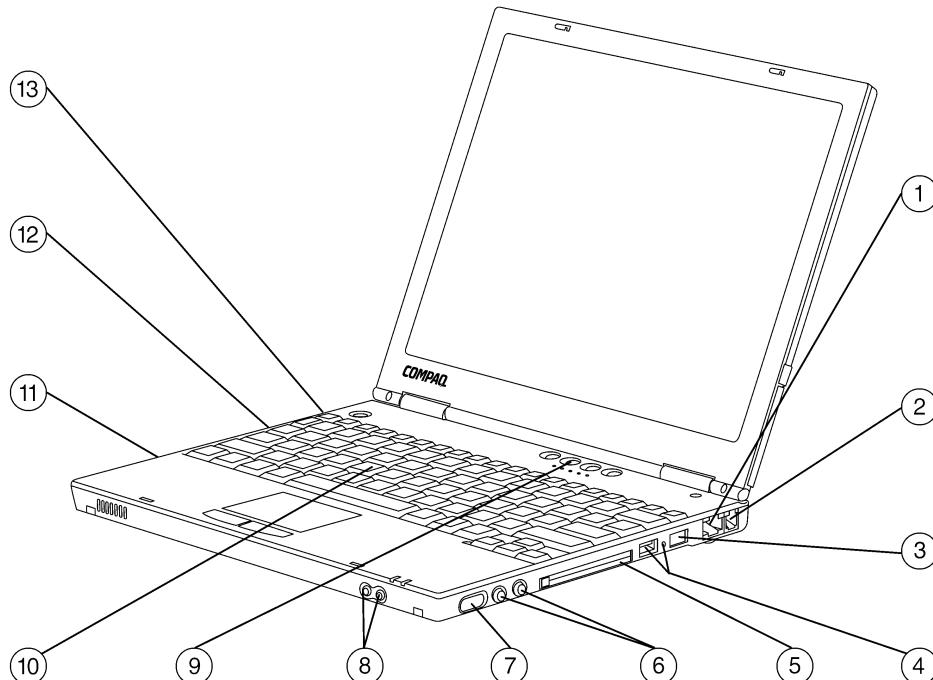
#### At A Glance

- Weighs only 3.5 lb/1.59 kg
- Less than 1 in/2.3 cm thin
- 12.1-inch XGA TFT display
- 256-MB SDRAM upgradeable to 1024 MB
- Up to 30-GB User removable SMART hard drives
- Integrated mini PCI 56K V.90/V.92 modem plus 10/100 NIC
- Complete set of system ports
- Microsoft® Windows® XP Professional Edition or Microsoft Windows 2000 preinstalled
- Protected by a Three-year, Worldwide Limited Warranty — certain restrictions and exclusions apply. For details, consult the Product Information Centre at 1-888-88-COMPAQ.

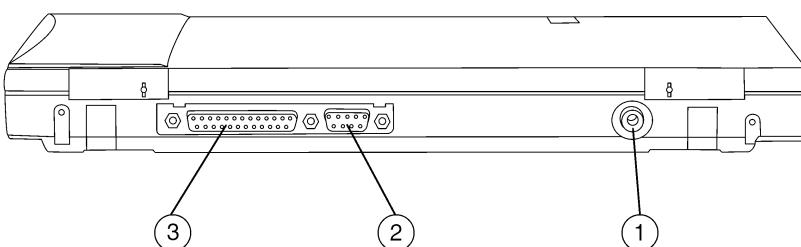
#### What's Special

- Ultra-light weight - 3.5 lb/1.59 kg
- Innovative MultiPort
- Full sized keyboard
- Support for up to four batteries \*
- Self-powered External MultiBay, which provides a cost effective and travel friendly way to access MultiBay drives.
- Optional Mobile Expansion Unit providing Multimedia, NIC pass through, storage and enhanced security features
- Magnesium display enclosure
- Industry leading PC lifecycle solutions

NOTE: \* = Requires optional MEU.



1. RJ-45 (NIC)	8. External Volume Controls
2. RJ-11 (Modem)	9. Easy Access Buttons
3. Infrared Port	10 Full Size Keyboard
4. Powered USB port for External MultiBay	11. Cable Lock Slot
5. PC Card Slot (1)	12. USB
6. Headphone/Microphone Jacks	13. VGA Out
7. Power	



1. TV Out	3. Parallel
2. Serial	

### Standard Features

<b>Processor and Panel</b>	1.2 GHz-M Mobile Intel Pentium III processor with 512-KB L2 cache 1.0 GHz-M Mobile Intel Pentium III processor with 512-KB L2 cache 12.1-inch TFT XGA display with 1024x768 resolution up to 16.7M colours <b>NOTE:</b> Mobile Intel Pentium III-M processors support enhanced Intel SpeedStep™ technology.	
<b>Memory</b>	Standard 256-MB (133-MHz) SDRAM Maximum 1024-MB (133-MHz) SDRAM (with two slots) <b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.	
<b>Communications</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo <b>NOTE:</b> Designed only to allow faster downloads from V.90/V.92 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. <b>NOTE:</b> Communication availability is subject to country regulatory approval.	
<b>Keyboard</b>	Full size desktop compatible keyboard, special feature hotkeys for instant access to power conservation, QuickLock/QuickBlank (ex: FN+F6), toggle between internal and external, or simultaneous displays, battery gauge, MultiPort on/off, speaker volume control, and brightness	
<b>Easy Access Internet Buttons</b>	The <i>Evo</i> ™ Notebook N410c comes with four Easy Access Buttons designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, files, or applications.	
<b>Pointing Device</b>	Touchpad	
<b>PC Card Slots</b>	One Type II PC Card Slot that supports both 32-bit CardBus and 16-bit PCMCIA Cards	
<b>Storage</b>	Diskette Drives	Optional Diskette Drive*
	Optical Drives	DVD/CD-RW Combo Drive* CD-RW Drive* DVD-ROM Drive* CD-ROM Drive*
	Hard Drive	40-GB SMART
	<b>NOTE:</b> * = Requires optional Mobile Expansion Unit (MEU) or External MultiBay.	
<b>Multimedia</b>	Compaq <i>PremierSound</i> ™ for enhanced stereo audio (with optional MEU) Integrated 16-bit Sound Blaster Pro-compatible stereo audio Integrated speaker and microphone External volume controls Headphone-out Microphone in Software MPEG1 support DVD movie playback software DVD-ROM Drive with DVD movie playback* DVD/CD-RW Combo Drive* CD-ROM Drive* 4X AGP graphics 16-MB DDR SDRAM <b>NOTE:</b> * = Requires optional Mobile Expansion Unit (MEU) or External MultiBay.	

### Standard Features

<b>Interfaces</b>	MultiPort	1
	PC Card Slot	One Type II
	Enhanced Parallel Port	1
	EPP/ECP	
	Serial Port	1
	External Monitor	1
	TV-out	1
	Headphone/Line-out	1
	Microphone in	1
	AC Power	1
	RJ-11 (modem)	1 (Model dependent)
	RJ-45 (NIC)	1 (Model dependent)
	Infrared Port	1 (4 Mb/s support) <i>(IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)</i>
	USB Port	2
	LED Status Indicators	7
<b>Graphics</b>	ATI Mobility Radeon M6 with 16-MB DDR SDRAM	
<b>Display (External)</b>	Up to 32-bit per pixel colour depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and colour depth settings	
<b>Display (Internal)</b>	12.1-inch TFT XGA display with 1024 x 768 resolution up to 16.7M colours	
<b>Operating System</b> <i>One of the following</i>	Microsoft Windows XP Professional Edition Microsoft Windows 2000 <b>NOTE:</b> Driver support for Microsoft Windows 98 SE and Microsoft Windows NT® 4.0.	
<b>Software</b>	Compaq Management Agents Diagnostics for Microsoft Windows DVD Playback Software (with optional MEU) Altiris eXpress™ Client Compaq Health and Support Guide Compaq Info Centre Guide	
<b>System Recovery</b>	Each unit is shipped with a CD (kit) for quick recovery (erases hard disk and restores manufacturer installed image) and software recovery (installs only selected standard software).	
<b>Intelligent Manageability</b>	Compaq Intelligent Manageability, a key component of PC Lifecycle Solutions, is the broad set of manageability features found on Compaq <i>Deskpro</i> ™ EN desktops, <i>Armada</i> ™ notebooks, <i>Evo</i> Clients, Professional Workstations, <i>iPAQ</i> ™ Deskside and <i>ProLiant</i> ™ server products. These best-in-class features on PC clients comply with industry standards, such as DMI and Wired for Management, while pioneering new ground in client manageability. Compaq introduced the industry's first line of manageable clients in 1995 and has been driving the industry ever since. With Compaq's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools will significantly lower the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit these Compaq websites: <a href="http://www.compaq.com/im">http://www.compaq.com/im</a> ; <a href="http://www.compaq.com/easydeploy">http://www.compaq.com/easydeploy</a> ; <a href="http://www.compaq.com/solutions/pcosolutions">http://www.compaq.com/solutions/pcosolutions</a>	

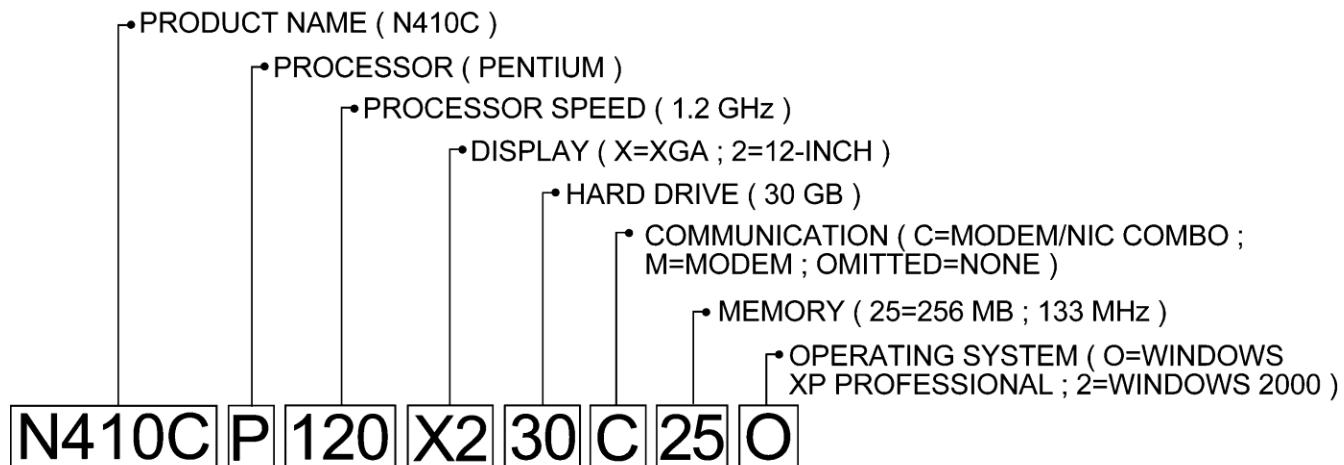
### Standard Features

<b>Security</b>	Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password DriveLock Enabled for PC SmartCard options Kensington Lock Slot
<b>Power Supply</b>	External AC (65 Watt) adapter (only 0.62 lb/0.28 kg, 6-foot/1.8 metre) power cord included. Total length including External AC adapter is 12 feet/3.66 metre
<b>Battery</b>	The <i>Evo</i> Notebook N410c 4-cell internal (main) Lithium-Ion battery provides over two hours of battery life; over four hours achieved using optional external battery. <b>NOTE:</b> Actual results may vary with product model, configuration, and individual usage. Compaq results of 2:20 (hr:min) were achieved running the eTesting Labs Inc.'s Business Winstone 2001 BatteryMark™ Test version 1.0.1 on an N410c with an Intel Pentium III 1.2 GHz CPU, 12.1-inch XGA panel, 256-MB RAM, 30-GB HDD, 4-cell Lithium-Ion battery, and combination NIC/modem. System parameters were set according to Ziff Davis recommendations: panel brightness 50%, hard drive, standby and video idle time set to never, laptop power management scheme. <b>NOTE:</b> This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries.
<b>Power Conservation</b>	Supports enhanced Intel SpeedStep technology (allows a Battery Optimized Mode where CPU draws 50% of normal power yet affords 70 to 80% of maximum PIII processing speed) Hibernation Instant-on via Standby Pop-ups with three presets One custom level of power conservation ACPI compliant
<b>MultiBay Devices</b> (requires optional MEU)	MultiBay devices may be swapped with the system powered on (hot) under Microsoft Windows XP Professional or Windows 2000 (except MultiBay Zip drive or MultiBay secondary hard drive). MultiBay devices can be swapped with system power off under any supported operating system.
<b>MultiPort</b>	MultiPort is a flexible, innovative solution providing customers the ability to connect to their choice of wireless standards such as 802.11b or Bluetooth™. This can be achieved by simply changing out the high-performance wireless module, which is integrated into the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.
<b>Docking/System Expansion</b>	The optional Mobile Expansion Unit (MEU) with NIC pass through extends the capabilities of the <i>Evo</i> Notebook N410c by adding dual MultiBay support, network connectivity, full port replication, and stereo speakers. The MultiBays in the MEU accept all common <i>Evo</i> series MultiBay drives and devices. The External MultiBay is a cost effective, travel friendly USB based alternative to the MEU which provides access to two MultiBay devices. <b>NOTE:</b> The N410c is not compatible with Compaq docking solutions. Docking functionality is provided via the MEU.
<b>Service and Support</b>	Compaq Services includes a Three-year, Worldwide Limited Warranty, pick-up or carry-in, toll-free 7 x 24 hardware technical phone support. Optional services include upgrade to Three-year Standard Warranty, Onsite Warranty, or Application and Operating System Support. Compaq Services includes a One-year Limited Warranty, whole-unit replacement through second business day, and pick-up and delivery. (Optional services include a one-year warranty extension CarePaq™ (FM-AMMAI-36 or 400514-002). Optional services include a three, four or five-year warranty extension CarePaq (179404-022, 200786-022, 200787-022). <b>NOTE:</b> Certain restrictions and exclusions apply. For details, consult the Product Information Centre at 1-888-88-COMPAQ. <a href="http://www.compaq.com/support/warranty_upgrades/product_specific_warranty.html">http://www.compaq.com/support/warranty_upgrades/product_specific_warranty.html</a>

## *Standard Features*

### Naming Convention

The Etymology of a Model name:



### Standard Features

#### MODELS

N410CP120X230C250 <i>P/N 470037-550</i> <i>French P/N 470037-557</i>	<b>Display</b> Processor Cache Memory Memory Optical Drive Hard Drive Modem Graphics Audio Operating System Pointing Device Warranty	12.1-inch colour TFT XGA 1.2 GHz-M Mobile Intel Pentium III 512-KB, L2 Cache Standard 256-MB SDRAM Maximum 1024-MB SDRAM None 30-GB SMART Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo ATI Mobility Radeon 16-MB SDRAM Compaq Premier•Sound Microsoft Windows XP Pro Touchpad 3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)
N410CP120X230C252 <i>P/N 470037-662</i> <i>French P/N 470037-663</i>	<b>Display</b> Processor Cache Memory Memory Optical Drive Hard Drive Modem Graphics Audio Operating System Pointing Device Warranty	12.1-inch colour TFT XGA 1.2 GHz-M Mobile Intel Pentium III 512-KB, L2 Cache Standard 256-MB SDRAM Maximum 1024-MB SDRAM None 30-GB SMART Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo ATI Mobility Radeon 16-MB SDRAM Compaq Premier•Sound Microsoft Windows 2000 Touchpad 3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)
N410CP100X220C250 <i>P/N 470039-997</i> <i>French P/N 470040-006</i>	<b>Display</b> Processor Cache Memory Memory Optical Drive Hard Drive Modem Graphics Audio Operating System Pointing Device Warranty	12.1-inch colour TFT XGA 1.0 GHz-M Mobile Intel Pentium III 512-KB, L2 Cache Standard 256-MB SDRAM Maximum 1024-MB SDRAM None 20-GB SMART Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo ATI Mobility Radeon 16-MB SDRAM Compaq Premier•Sound Microsoft Windows XP Pro Touchpad 3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)

### *Standard Features*

#### **MODELS** (*continued*)

N410CP100X220C252	<b>Display</b>	12.1-inch colour TFT XGA
P/N 470040-148	<b>Processor</b>	1.0 GHz-M Mobile Intel Pentium III
French P/N 470040-149	<b>Cache Memory</b>	512-KB, L2 Cache
	<b>Memory</b>	Standard 256-MB SDRAM Maximum 1024-MB SDRAM
	<b>Optical Drive</b>	None
	<b>Hard Drive</b>	20-GB SMART
	<b>Modem</b>	Type III Mini PCI 56K (V.90/V.92) modem plus 10/100 NIC Combo
	<b>Graphics</b>	ATI Mobility Radeon 16-MB SDRAM
	<b>Audio</b>	Compaq <i>Premier•Sound</i>
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Pointing Device</b>	Touchpad
	<b>Warranty</b>	3 Year Parts, 3 Years Labour, 0 Years On-Site (3-3-0)

**NOTE:** Mobile Intel Pentium III-M processors support enhanced Intel SpeedStep™ technology.

### Options

<b>Memory</b>	512-MB (133 MHz) Memory Upgrade	238830-B25
	256-MB (133 MHz) Memory Upgrade	197898-B25
	128-MB (133 MHz) Memory Upgrade	197897-B25
	64-MB (133 MHz) Memory Upgrade	197986-B25
<b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.		
<b>Monitors</b>	TFT8030 Flat Panel Colour 18-inch (carbon/silver)	234362-001
	TFT7020 Flat Panel Colour 17-inch with integrated speakers (carbon/silver)	253217-001
	TFT5017 Flat Panel Colour 15-inch (carbon/silver)	263874-003
	TFT5017m Flat Panel Colour 15-inch multimedia flat panel (carbon/silver)	279414-001
	TFT5030 Flat Panel Colour 15-inch (carbon/silver)	228134-001
	S9500 19-inch CRT (carbon/silver)	261615-003
	V7550 17-inch CRT (carbon/silver)	261611-003
<b>MultiBay Hard Drives</b>	40-GB SMART Hard Drive	263472-B25
	30-GB SMART Hard Drive	212791-B25
<b>MultiBay Storage Devices</b>	8X DVD/CD-RW Combo Drive	260472-B25
	8X DVD-ROM Drive	138230-B25
	16X CD-RW Drive	269088-B25
	24X CD-ROM Drive	298452-B25
	1.44-MB Diskette Drive	226935-B25
<b>Other Storage Devices</b>	IBM® 1-GB Microdrive™ (PC card Device)	217390-B25
	USB Disk-on-Key – 8 MB	249552-B25
	USB Diskette drive	230330-B25
	Parallel port cable for diskette drive	226748-B21
<b>NOTE:</b> The <i>Evo</i> Notebook N410c requires optional Mobile Expansion Unit or external MultiBay to utilize MultiBay Storage Devices.		
<b>Mobile Expansion Unit (MEU)</b>	External MultiBay (USB 2.0)	217388-001
	Mobile Expansion Unit (N410c) without MultiBay devices	286255-B25
<b>NOTE:</b> * = Data transfer rates will vary from 150 KB/s to 3600 KB/s.		
<b>Wireless Connectivity</b>	MultiPort 802.11b Wireless LAN W200 module	283836-001
	Bluetooth MultiPort module	228057-B21
	Compaq WL110 Wireless LAN PC Card	191808-B21
	Compaq WL510 Wireless Enterprise Access Point	216709-001
	Compaq WL410 Wireless SMB Access Point	191811-001
	Compaq WL310 Home Office Access Point	191813-001
	Compaq Range Extender Antenna	230268-B21
<b>Power</b>	4-cell primary Lithium-Ion battery (internal)	232593-B25
	4-cell secondary Lithium-Ion battery (external)	236309-B25
	4-cell secondary Lithium-Ion high capacity travel battery (external)	236310-B25

### Options

Common Power Solutions	MultiBay Battery (8-cells)*	265650-B25
	External Battery Charger **	135555-001
	AC Adapter 65W	265602-001
	Auto Power Adapter/Charger 65W	265649-B25
	Aircraft Power Adapter	386504-B21
	AC Line Cord (3.1 m/10-ft)	217932-002
NOTE: * = Use of this option with the <i>Evo</i> Notebook N400c/410c requires the optional Mobile Expansion Unit (MEU).		
NOTE: MultiBay Battery only functions in the optional MEU and will not function in the external MultiBay.		
NOTE: ** = The Universal Battery Charger will charge the N400c/410c external secondary handle batteries. It will not charge the N400c/410c internal primary battery.		
Input Devices	External Enhanced III Keyboard (carbon)	118003-008
	Compaq 2 Button Mouse (carbon)	103180-B21
	USB 2 Button Scroll Mouse (carbon)	195255-B25
	External 10-Key Numeric Keypad (carbon)	294317-B21
	USB EZ Access Keyboard	222726-008
	Wireless Keyboard and Mouse	251385-008
Security	Biometric PC Card	146805-B25
	Security Cable Lock	294316-B21
	Compaq Smart Card PC Card Reader	135646-B25
Invaluable Accessories	MP1400 Microportable Projector	174626-004
	MP1800 Microportable Projector	180226-001
	MP2800 Microportable Projector	180228-001
	Multimedia Adapter & Remote Kit ( <i>comes with the MP1800</i> )	174963-001
	MP1600 Video Adapter	116298-001
	MP1600 Lamp replacement kit	118052-001
	MP1800/1400 Lamp replacement kit	189789-001
	MP2800 Lamp replacement kit	215464-001
Carrying Cases	Compaq Ultralight Case (nylon)	167336-B21
	Compaq Ultralight Case (leather)	242359-B25
	Compaq Plus Case	242360-B25
	Compaq Professional Case (nylon)	242361-B25
	Compaq Professional Case (leather)	242362-B25
<i>Evo Notebook N410c, N400c, N610c, and Armada M300 and M700 specific</i>		
	Compaq M Series Portfolio Case	167337-B21

### *Memory*

#### Compaq *Evo* Notebook N410c

##### **STANDARD MEMORY**

0-MB of memory on system board,

2 Slots total

1-256-MB DIMM installed in Slot 1

1-Additional open Memory Slot

Memory	Slot 1	Slot 2
	256 MB	Empty

##### **STANDARD MEMORY WITH OPTIONAL MEMORY UPGRADES**

Support for up to 512-MB of SDRAM is available with the installation of optional SDRAM Memory Upgrades.

Up to	Slot 1	Slot 2
256 MB	256 MB	Empty
384 MB	256 MB	128 MB
512 MB	256 MB	256 MB
768 MB	256 MB	512 MB
1024 MB	512 MB	512 MB

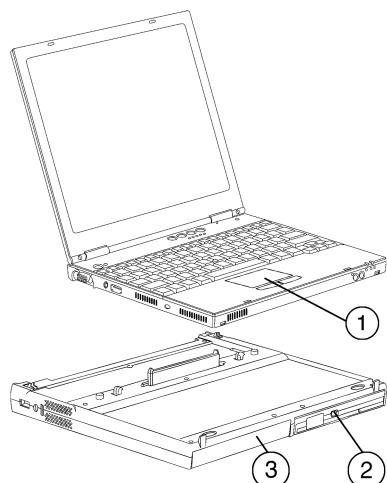
**NOTE:** This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

Following are memory options available from Compaq:

512-MB (133-MHz) Memory Upgrade	238830-B25
256-MB (133-MHz) Memory Upgrade	197898-B25
128-MB (133-MHz) Memory Upgrade	197897-B25

**NOTE:** Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

### Storage



1. Hard Drive
2. MultiBay
3. MultiBay

## DRIVE SUPPORT

### System Drive Support

Removable Media	Quantity Supported	Drive Bay Supported
1.44-MB Diskette Drive (optional)	Up to 1	External connects via parallel port

### Hard Drives

40-GB SMART Hard Drive	Up to 1	Hard Drive Bay
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## MEU DRIVE SUPPORT

Removable Media	Quantity Supported	Drive Bay Supported
8X DVD/CD-RW Combo Drive	Up to 2	MultiBay
8X DVD-ROM Drive	Up to 2	MultiBay
16X CD-RW Drive	Up to 2	MultiBay
24X CD-ROM Drive	Up to 2	MultiBay
1.44-MB Diskette Drive	Up to 1	MultiBay

### Secondary Hard Drives

40-GB SMART Hard Drive	Up to 2	MultiBay
30-GB SMART Hard Drive	Up to 2	MultiBay

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (H x W x D)</b>	12.1-inch TFT panel display	0.89 x 10.5 x 9.5 in/2.2 x 26.6 x 24.2 cm
	<b>Weight</b>	Minimum/Maximum	3.5 lb/1.58 kg
	<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage (Li-Ion)	14.8 VDC
		Maximum Operating Power	40W
		Peak Operating Power	50W
	<b>Temperature</b>	Operating	50° to 95° F/10° to 35° C
		Non-operating	-4° to 140° F/-20° to 60° C
	<b>Relative Humidity</b>	Operating	10% to 90% relative humidity, non-condensing
		Non-operating	5% to 90% relative humidity, 101.6° F/38.7° C maximum wet bulb temperature
	<b>Shock</b>	Operating	10 G, 11 ms, half-sine
		Non-operating	60 G, 11 ms, half-sine
	<b>Vibration</b>	Operating	0.5 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate
		Non-operating	1.0 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate
	<b>Maximum Altitude (unpressurized)</b>	Operating	0 to 10,000 ft/3,048 m (14.7 to 10.1 psia)
		Non-operating	0 to 30,000 ft/9,144 m (14.7 to 4.4 psia)
<hr/>			
<b>12.1-Inch Colour TFT XGA Display Dimensions (H x W)</b>			
<b>Diagonal Size</b>	10.3 x 7.8 in/26.1 x 19.9 cm		
<b>Mounting</b>	Internal		
<b>Number of Colours</b>	16M		
<b>Contrast Ratio</b>	125:1		
<b>Refresh Rate</b>	60 Hz		
<b>Brightness</b>	130 nit typical AC only/70 on battery/115 nit minimum		
<b>Pixel Resolution</b>	Pitch	0.264 x 0.264 mm	
	Format	1024 x 768	
	Configuration	RGB Stripe	
<b>Backlight</b>	CCFT		
<b>Character Display</b>	80 x 25		
<b>Total Power Consumption</b>	4W		

### Technical Specifications

#### Hard Drives

40 GB

<b>MultiBay Drive Adapter</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
	Weight	0.15 lb/70 g
<b>Drive Weight</b>	0.21 lb/95 g	
<b>Capacity</b>	40 GB	
<b>Height</b>	0.374 in/9.5 mm	
<b>Width</b>	2.75 in/70 mm	
<b>Interface</b>	ATA-5	
<b>Transfer Rate</b>	Synchronous (maximum)	100 MB/s (Drive Capability)
	Security	ATA Security
<b>Seek Time</b> (typical reads, including settling)	Single Track	3 ms
<b>Rotational Speed</b>	Average	13 ms
	4200 RPM	25 ms
<b>Logical Blocks</b>	78,140,160	
<b>Operating Temperature</b>	41° to 131° F/5° to 55° C	
<b>Features</b>	Security	ATA Security

#### External AC Adapter

<b>Weight</b>	0.62 lb/0.28 kg
<b>Power Supply (Input)</b>	
Operating Voltage	90 to 260 VAC RMS
Operating Current	1.7 A RMS
Operating Frequency Range	47 to 63 Hz AC
Maximum Transient	4/50 kV

#### Internal Lithium-Ion Battery Pack

<b>Weight</b>	0.49 lb/0.22 kg
<b>Cells</b>	4-cell Lithium-Ion
<b>Energy</b>	
Voltage	14.4 V
Amp-hour capacity	1.96 Ah
Watt-hour capacity	28Wh
<b>Temperature</b>	
Operating	41° to 95° F/5° to 35° C
Non-operating	-4° to 140° F/-20° to 60° C
<b>Battery Re-Charge Time</b>	
System in OFF mode or Standby	2 hours
System ON (depending of system power consumption)	2-5 hours

### Technical Specifications

<b>Secondary Lithium-Ion Battery Pack</b>	<b>Dimensions (H x W x D)</b>	0.9 x 10.47 x 0.9 in/2.3 x 26.6 x 2.3 cm
	<b>Weight</b>	0.48 lb/0.21 kg
	<b>Cells</b>	4-cell Lithium-Ion
	<b>Energy</b>	Voltage 14.4 V
		Amp-hour capacity 1.96 Ah
		Watt-hour capacity 28Wh
	<b>Temperature</b>	Operating 41° to 95° F/5° to 35° C
		Non-operating -4° to 140° F/-20° to 60° C
<b>Secondary High Capacity Lithium-Ion Battery Pack</b>	<b>Dimensions (H x W x D)</b>	1.8 x 10.6 x 1.2 in/4.6 x 26.6 x 2.3 cm
	<b>Weight</b>	0.93 lb/0.42 kg
	<b>Cells</b>	4-cell Lithium-Ion
	<b>Energy</b>	Voltage 14.4 V
		Amp-hour capacity 2.6 Ah
		Watt-hour capacity 37.4 Wh
	<b>Temperature</b>	Operating 41° to 95° F/5° to 35° C
		Non-operating -4° to 140° F/-20° to 60° C
<b>MultiBay Lithium-Ion Battery Pack (8-cell)</b>	<b>Dimensions (H x W x D)</b>	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
	<b>Weight</b>	1.03 lb / 0.47 Kg
	<b>Energy</b>	Voltage 14.8 V
		Amp-hour capacity 3.2 Ah
		Watt-hour capacity 47.4 Wh
	<b>Temperature</b>	Operating 32° to 122° F/0° to 50° C
		Non-operating 32° to 140° F/0° to 60° C
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby 2 hours
		System ON 2 to 5 hours
	<b>Lifecycle</b>	80% capacity after 300 full charge/discharge cycles, or 600 half discharge followed by a full charge cycles.

### Technical Specifications

<b>8X DVD/CD-RW Combo Drive</b>	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.34 kg
	<b>Centre Hole Diametre</b>	0.59 in/1.5 cm	
	<b>Disk Diametre</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	0.047 in/1.2 mm	
	<b>Track Pitch</b>	0.74 µm	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB/s (minimum)	
	<b>Data Transfer Rate</b> (typical, including settling)	CD-R (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-RW (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	<b>Start-up Time</b>	< 15 seconds	
	<b>Stop Time</b>	< 6 seconds	
<b>24X DVD/CD-RW Combo Drive</b>	<b>MultiBay Drive</b>	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.33 kg
	<b>Centre Hole Diametre</b>	3.9 cm	
	<b>Disk Diametre</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	1.2 mm	
	<b>Track Pitch</b>	0.74 µm	
	<b>Access Times</b> (typical reads, including settling)	Random CD	< 150 ms
		Full-Stroke CD	< 225 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB/s (minimum)	
	<b>Data Transfer Rate</b> (typical, including settling)	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		CD-RW (10X)	1500 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	<b>Start-up Time</b>	< 15 seconds	
	<b>Stop Time</b>	< 6 seconds	

### Technical Specifications

16X CD-RW Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
	Weight	0.74 lb/0.33 kg	
	Centre Hole Diametre	1.5 cm	
	Disk Diametre	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	CD-R (16X)	2400 KB/s
		CD-RW (8X)	1200 KB/s
		CD-ROM (24X)	3600 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
8X DVD-ROM Drive	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	
	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
	Weight	0.66 lb/0.3 kg	
	Centre Hole Diametre	1.5 cm	
	Disc Diametre	12 cm/8 cm	
	Disc Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random (typical)	< 150 ms DVD Media
		Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 110 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	Cache Buffer	512 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
		Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 10 seconds	Single Session CD-ROM
	Stop Time	< 3 seconds	

### Technical Specifications

24X CD-ROM Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.50 lb/0.22 kg
	Applicable Disk	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed packets only), CD-Bridge	
	Centre Hole Diametre	15 mm	
	Disk Diametre	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	1.6 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 300 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB	
	Data Transfer Rate (typical, including settling)	Sustained (16X)	2400 KB/s
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	Start-up Time	< 8 seconds	
	Stop Time	< 4 seconds	
MultiBay Diskette Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.51 lb/230 g
	Diskette Size	3.5 in	
	Height	12.7 mm	
	Bytes per Sector	512	
	Sectors per track	High density	18 (1.44 MB)/15 (1.2 MB)
		Low density	9
	Tracks per side	High density	80 (1.44 MB)/80 (1.2 MB)
		Low density	80
	Read/Write heads	2	
	Access Times	Track-to track (high/low)	3 ms/6 ms
		Average (high/low)	94 ms/174 ms
		Settling time	15 ms
		Latency average	100 ms

## Technical Specifications

<b>802.11b MultiPort Module</b>	<b>Form Factor</b>	Compaq "MultiPort"
	<b>Weight</b>	0.22 lb/100 g (maximum)
	<b>Operating Temperature</b>	Operating 14° to 149° F/-10° to 65° C
	<b>Storage Temperature</b>	Non-operating -40° to 176° F/-40° to 80° C
	<b>Humidity</b>	Operating 10 to 90% Non-operating 5 to 95%
	<b>Altitude</b>	Operating 0 to 15,000 ft/4,572 m Non-operating 0 to 40,000 ft/12,192 m
	<b>Plug and Play</b>	USB 1.1 compliant Microsoft Windows Plug and Play compliant
	<b>RF Network Standard</b>	IEEE 802 Part 11b (802.11b)
	<b>Frequency Band</b>	2,4000 to 2.4835 GHz
	<b>Number of Selectable Sub-channels</b>	Worldwide Certification United States (FCC) 11
	<b>Data Rates</b>	1, 2, 5.5, 11 Mbps
	<b>Antenna type</b>	Internally integrated within module (with special polarization diversity)
	<b>WEP Security</b>	64-bit encryption keys compliant to IEEE 802.11 128-bit encryption key compliant to IEEE 802.11 Ability to enter keys manually or via pass-phrase
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
	<b>Modulation Technique</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK
	<b>Receiver Sensitivity – Bit Error Rate (1E-5)</b>	11 Mbps: -85 dBm 5.5 Mbps: -87 dBm 2 Mbps: -91 dBm 1 Mbps: -94 dBm
	<b>Maximum Receive Level</b>	-4 dBm
	<b>Output Power (approximately)</b>	18 dBm
	<b>Operating Voltage</b>	5V power operation
	<b>Power Management</b>	Keystroke Fn+F2 Power On/Off control
	<b>Power Consumption</b>	Transfer mode: < 600 mA, maximum Receive mode: > 400 mA, maximum Standby mode: > 1 mA, maximum
	<b>Transmit Power</b>	10 to 100mW It is preferable to have the user configurable output power to save battery life for laptop users or in high AP coverage areas
	<b>Power Saving Option</b>	802.11 Compliant Power Saving Power Saving Mode selectable through the configuration utility ACPI compliant power management
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>OS Support</b>	Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium
	<b>Protocols Supported</b>	TCP/IP IPX/SPX UDP
	<b>LED Activity</b>	Flashing LED – AP Search Mode Solid LED – On LED Off – Power Off

### Technical Specifications

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
Throughput, Data Rate and Operating Distance	> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"><li>• 1000 feet – Open sight</li><li>• 100 feet – Closed space (Steel Space)</li></ul>
	> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"><li>• 1100 feet – Open sight</li><li>• 200 feet – Closed space (Steel Space)</li></ul>
	> 700 Kbps	1 Mbps	<ul style="list-style-type: none"><li>• 1200 feet – Open sight</li><li>• 300 feet – Closed space (Steel Space)</li></ul>
Bluetooth MultiPort Module	Form Factor	Compaq "MultiPort"	
	Bluetooth	1.1 Compliant	
	Dimensions	2.2 x 6.6 x 0.55 in/5.6 x 16.7 x 1.4 cm	
	Weight	0.22 lb/100 g (maximum)	
	Temperature	Operating Non-operating	50° to 104°F/10° to 40°C -4° to 140°F/-20° to 60°C
	Humidity	Operating Non-operating	10% to 90% 5% to 95%
	Altitude	Operating Non-operating	0 to 10,000 ft/3,048 m 0 to 30,000 ft/9,144 m
	Plug and Play	USB 1.1 compliant Microsoft Windows Plug and Play compliant	
	Frequency Band	2,4000 to 2.4835 GHz	
	Number of Available Channels	79 (1 MHz) available channels	
	Data Rates and throughput	1 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 kbps symmetric	
	Antenna type	Internally integrated within module (with special polarization diversity)	
	Range	328 ft/100 m	
	Profile Support	General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Synchronization Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile	

### Technical Specifications

<b>Bluetooth MultiPort Module (continued)</b>	<b>Usage Models</b>
	Service Discovery (determine what Bluetooth devices are within range and support authorization)
	<b>Synchronization:</b> PDAs to PCs Portable to Desktop
	<b>File Transfer:</b> File and directory browsing and navigation on another Bluetooth device. File copying Object manipulation – including add, delete, create new folders etc. Wireless link to Corporate LAN using several Bluetooth devices sharing the same
	<b>Access Point:</b> Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP Wireless link to WAN thru cell phone GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc. Agnostic to WAN technology Send/receive SMS messages Wireless link to Printer Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using NDIS (< 7 computers) Adhoc Bluetooth Pico-networking (point to multi-point) Object Push – Business card or appointment exchange
<b>Transmit Power</b>	< 20 dBm (Bluetooth Class 1)
<b>Receive Sensitivity</b>	Better than -70 dBm at 0.1 % raw bit error rate
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
<b>Power Requirement</b>	Peak < 1500 mW Average < 500 mW Standby < 250 mW
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support Keystrokes Fn+F2 Power On/Off control Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>OS Support</b>	Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium
<b>Protocols Supported</b>	TCP/IP IPX/SPX UDP
<b>LED Activity</b>	Solid Blue LED – On LED Off – Power Off
<b>Certifications</b>	All necessary regulatory approvals for countries we support including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark

### Technical Specifications

Type III Mini PCI 56K (V.90/V.92) Modem plus 10/100 NIC Combo	<b>Form Factor</b>	Mini-PCI Type III per Specification
	<b>OS Support</b>	Microsoft Windows 98 (Gold, SE), Windows Millennium Edition, Windows NT (with all released Service Packs) 4.0, Windows 2000, Windows XP (Home, Professional), DOS Application Support under Windows
	<b>Power Management Support</b>	APM Revision 1.2, ACPI, Compaq Power Management Extensions for Microsoft Windows NT
	<b>Approvals/Certifications</b>	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	<b>Modem Device Driver Name</b>	Lucent Win Modem
	<b>Data Mode Capabilities</b>	V.90/V.92 (a-law, mu-law) V.8bis V.80 V.44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) V.34 (file date: 10/96)
	<b>Optional symbol rates:</b>	2800, 3429 Asymmetric Symbol rates
	<b>Synchronous primary channel data signaling rates:</b>	3600, 31200 Automatic rate re-negotiation V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	<b>Fax Mode Capabilities</b>	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
	<b>Command Set</b>	V.250 (Partial) TIA-602 Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +Irr Modulation: +MS, +MR, +MA Error control: +ES, +ER, +EB, +ESR, +ETBM Data compression: +DS, +DR V.251

### Technical Specifications

Type III Mini PCI 56K (V.90/V.92) Modem plus 10/100 NIC Combo <i>(continued)</i>	NIC Device Driver Name	Intel PRO/100 P Mobile Combo Adapter
	Data Link Layers	IEEE 802.2 LLC
		SNAP
	Ethernet Features	10 Mbps Ethernet: IEEE 802.3 standard 10BASE-T
		100 Mbps Ethernet: IEEE 802.3u standard 100BASE-TX
		Full Duplex at 10 and 100 Mbps
		Auto-Negotiation
		Wake on LAN from all power managed states, including soft off (S5)
		Boot on LAN from OFF
		Lower Power State on Link Loss
	Software support	IBM LAN Server Version 1.2, 1.3, 2.0, 4.0
		Microsoft Windows 98 SE, NT 4.0, 2000, XP (Home and Professional)
		Novell® Netware® 3.1x, 4.x, 5.x
	Protocol support	TCP/IP
		Novell IPX/SPX and Microsoft compatible
		Novel IPX ODI
		Microsoft NetBEUI
		IBM DLC

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